JAN15 1:47PM

LONGMONT COMMUNITY & NEIGHBORHOOD RESOURCES
A Division of Community Services

350 Kimbark Street
Longmont, CO 80501
(303) 651-8444
www.longmontcolorado.gov/cnr

2015 Neighborhood Improvement Program Grant Application

(Deadline, Wednesday, February 4, 2015)

Neighborhood Group: ASPEN GROVE VILLAGE Date: 1-14-15

Project Title: ELECTRICITY CONSERVATION

Project Location: NW AND SW CORNERS OF OAK RIDGE AND FRANCIS ST.S

Amount requested: _____ Grant # _____

NIP Grants applied for or awarded in the last three years:

2012 - Applied for: Yes (No) Grant awarded? Yes (No) Amount Awarded? $_____
2013 - Applied for: Yes (No) Grant awarded? Yes (No) Amount Awarded? $_____
2014 - Applied for: Yes (No) Grant awarded? Yes (No) Amount Awarded? $_____
Is your neighborhood a voluntary neighborhood or a HOA Voluntary (HOA)

4. Identify the need or problem your neighborhood has recognized and is prepared to address. (Value 0 to 4 points), based on, "how compelling is this need" - 0 not compelling, 1 somewhat compelling, 2- compelling, 3 very compelling, 4 extremely compelling.

3. A REVIEW OF THE USE OF ELECTRICITY FOR LIGHTING FOUND THAT NEW PRODUCTS WERE AVAILABLE THAT WOULD REDUCE CONSUMPTION AND GREATLY LOWER THE ANNUAL COSTS OF MAINTENANCE AND THE AMOUNT OF ELECTRICITY USED.

5. How did you involve your neighborhood in identifying this need or problem?
(Value 0 to 4 points), based on, what level was the neighborhood involved in identifying this need or problem - 0 not involved, 1 somewhat involved, 2- involved, 3 very involved, 4 extremely involved.

3. THE AGV 7 member Board AND The MANAGEMENT ANNUALLY REVIEW ALL EXPENDITURES FOR IMPROVEMENT AND COSTS SAVINGS. THE NGLA REPRESENTATIVE WAS ON-BOARD FOR AN APPLICATION FOR A NGLA PROJECT GRANT.

6. Describe how the project will provide a solution that is sustainable to the problem stated above.
(Value 0 to 4 points), based on, how will this provide a sustainable solution to the need or problem - 0 poor solution, not sustainable, 1 an OK solution, not very sustainable, 2- a good solution, sustainable, 3 very good solution, and sustainable 4 very good solution, and very sustainable.

4. THE NEW LED LIGHT IS RATED FOR AT EST. 50,000 HOURS, 11.4 YEARS WHEN USING ON-TIME=12 HOURS PER DAY.

7. What is the contribution to this project from neighborhood (money/materials/labor)? (Value 0 to 6 points), based on, contribution from the neighborhood- 0 poor contribution, 1 an adequate contribution, 2 a good contribution, 3 very good contribution, 4 excellent contribution, 1 extra point for a non HOA neighborhood, an additional extra point for a non HOA neighborhood that has a contribution of 25% or greater.

3. 41% MATCH VS 59% REQUEST. ALL ADAPTER MATERIALS will be Supplied By The HOA. The LABOR HOURS LISTED WITH THE ORIGINAL APPLICATION HAS ALREADY BEEN EXCEEDED [illegible] INSTALLATION TIME TO BE DONE LATER

8. The NIP Grant is funded by the Public Improvement Fund and must provide a clear public benefit. Describe how will this project benefit the public? **(Value 0 to 6 points)**, based on, how will this provide a clear benefit to the public- 0-1 poor benefit, 2-3 an OK benefit, 4-5 a good benefit, 6-7 very good benefit, 8-10 excellent benefit.

USING THESE 2 FIXTURES IS CALCULATED TO SAVE 1,170 KW OF POWER ANNUALLY.

THE ASPEN GROVE VILLAGE SAVINGS ARE ESTIMATED TO BE:

APPROXIMATELY $42.00 ANNUALLY FOR BULBS.

THE COSTS OF 1,170 KW OF LONGMONT POWER

CITY OF LONGMONT, COLORADO

15.05.140 Outdoor lighting.

A. Purpose. Outdoor or exterior lighting should ensure that the functional and security needs of a development are met in ways that do not adversely affect the adjacent properties or neighborhood. The degree to which outdoor night lighting affects a property owner or neighborhood shall be examined considering the light source, level of illumination, hours of illumination, and need for illumination in relation to the effects of the lighting on adjacent property owners and the neighborhood.

B. Applicability and Exemptions.

1. New Development and Redevelopments--Plans Required. All new development and redevelopments, except developments that contain only one-family or two-family dwelling uses, shall submit a proposed outdoor lighting plan (point to point analysis) as part of the applicable development application (site or development plan, etc.). The outdoor lighting plan shall meet the functional security needs of the proposed land use without adversely affecting surrounding properties, neighborhoods or the community.

a. Residential development otherwise exempt from the lighting plan submittal requirements of this section shall still comply with the design and light intensity standards stated in this section, as applicable.

2. Existing Development. Existing development shall be subject to the light shielding/glare reduction standards of this section. Existing development, however, is not subject to the lighting level standards of this section until such time as the property redevelops or remodels.

3. Modification of Lighting to Ensure Compliance. All outdoor lighting is subject to modification after installation if the city finds that the lighting, as installed, does not comply with these standards.

4. Public Street Lighting. Public street lighting installed by the City of Longmont is exempt from the specific standards stated in this section, although the city will comply with industry, state and federal standards regarding public street lighting and will design new and replacement lighting to minimize the impacts of lighting on surrounding properties and neighborhoods.

5. Exemption for Public Outdoor Active Recreational Uses. Because of their unique requirements for nighttime visibility and their limited hours of operation, city-owned ball diamonds, playing fields, tennis courts, and other similar outdoor active recreational uses are exempt from the outdoor lighting standards stated in this section and shall only be required to meet the following standards:

a. Limits on Cutoff Angle. Cutoff from a lighting source that illuminates an outdoor active recreational use may exceed an angle of ninety degrees from the pole, provided that the light source is shielded to prevent light and glare spillover to surrounding residential properties and neighborhoods;

b. Maximum Permitted Illumination at the Property Line of the Recreational Use: two footcandles;

c. Limits on Hours of Illumination. Exterior lighting for an outdoor active recreational use shall be extinguished no later than midnight.

C. Creation of Traffic Hazard Prohibited--Colored Lights Restricted. Neither the direct nor reflected light from any outdoor light source shall create a traffic hazard to operators

of motor vehicles on public streets or to operators of aircraft, and no colored lights may be used in such a way as to be confused or construed as street-traffic or air-traffic control devices.

D. Changing Intensity or Color Prohibited--Temporary Holiday Displays Excepted. No blinking, flashing or fluttering lights, or other illuminated device that has a changing light intensity, brightness or color, is permitted in any zoning district, except for temporary holiday displays.

E. Lighting Levels.

1. With the exception of lighting for public streets, all other project lighting used to illuminate buildings, parking areas, pedestrian walkways, bikeways, or landscape areas, shall be evaluated during the site or development plan review process. The following Table 15.05-J gives maximum lighting levels for outdoor activity areas averaged over the entire activity area with a light loss factor of 1.0. The applicant is responsible for verifying that the property/site complies with the lighting standards;

Table 15.05-J

TABLE INSET:

Activity Area	Average Footcandles (Maximum)
Areas surrounding buildings except as allowed in other areas listed below that are adjacent or nearby to the buildings	1.0
Parking and drive areas in residential districts	1.0
Parking and drive areas pedestrian walks and outdoor display and retail areas in non-residential districts	2.0
Gasoline fueling areas, drive-up window areas, ATM areas, car wash bays, and loading and service areas	5.0

2. All other illuminance shall be subject to city review and approval, but shall not exceed IESNA recommendations as published in the Lighting Handbook (9th Ed, c. 2000), Lighting for Exterior Environments (RP-33-99), Recommended Practice for Lighting Merchandising Areas (RF-2), or other applicable IES publications, as these publications are amended;

3. Lighting shall be distributed as evenly as possible across activity areas to minimize extremes in illuminance levels; and

4. The amount of nuisance glare (light trespass) projected onto a residential use from another property shall not exceed 0.1 footcandle at the property line.

F. General Design Standards. All exterior lighting, excluding public street lighting, shall meet the following design standards:

1. Background spaces like parking lots shall be illuminated as unobtrusively as possible to meet the functional needs of safe circulation and protection of people and property. Foreground spaces, such as building entrances and outside seating areas, shall utilize local lighting that defines the space without glare.

2. Light sources shall be concealed or shielded to minimize the potential for glare and light pollution. Lights, such as wallpacks, that shine outward and create direct glare are prohibited. Developments shall use completely shielded (full cutoff type) fixtures for all

lighting that provides consistent illumination, unless an alternative lighting design is specifically approved by the decision-making body.

3. The style of light standards and fixtures shall be consistent with the style and character of architecture proposed on the site, provided the fixtures are completely shielded (full cutoff) and minimize glare, unless an alternative lighting design is specifically approved by the decision-making body.

4. All outdoor light not necessary for security purposes shall be reduced, activated by motion sensors devices, or turned off during hours when the business or use is not open.

5. Light fixtures used to illuminate flags, statues, or any other objects mounted on a pole, pedestal, or platform shall use a narrow cone beam or light that shall not extend beyond the illuminated object.

6. For approved upward-directed architectural, landscape, and decorative lighting, direct light emissions shall not be visible above the building roof line.

their lights meet this code.

7. Completely shielded (full cutoff) light fixtures shall be oriented so that the light source is directed straight down (the fixture lens is horizontal with the ground). No light sources shall be directed toward property boundaries or adjacent rights-of-way.

8. Preferred lighting types include color-correct (white light) types such as halogen or metal halide, or high-pressure sodium. Light types of limited spectral emission, such as low-pressure sodium or mercury vapor lights, are prohibited in all areas.

9. Light sources in the interior of non-residential buildings shall be shielded to the maximum extent practicable to minimize glare and visibility from the exterior of the building.

G. Height Standards for Lighting.

1. Residential Zoning Districts. Light fixtures shall be no higher than sixteen feet from the ground and, if mounted to a building structure, shall not exceed the height of the building or structure or sixteen feet, whichever is less. Bollard-type lighting fixtures shall be between three and four feet high.

2. Non-Residential and Public Zoning Districts. Light fixtures shall be no higher than twenty-five feet from the ground and, if mounted to a building structure, shall not exceed the height of the building or structure or twenty-five feet, whichever is less. Bollard-type lighting fixtures shall be between three and four feet high.

3. Exemptions and Modifications of Height Standards.

a. Street lights installed by the city are exempt from the height standards specified in these subsections.

b. Other lighting fixtures higher than the maximum heights specified in this subsection but not exceeding the maximum structure height in the applicable zoning district must be specifically approved as a modification by the decision-making body based upon a finding that such lighting shall not adversely affect surrounding properties, according to Section 15.02.090H, "Minor Modifications."

c. Lighting height greater than the maximum zoning district height may be approved only through a height exception. See Section 15.02.060J, "Height Exceptions." (Ord. 0-2006-70 § 15; Ord. 0-2001-78 § 1 (part))

LED PANORAMA FLOOD LIGHT c UL us

Installation instructions for AL-WF-DB and AL-WF-WH

READ ALL OF THESE INSTALLATION INSTRUCTIONS BEFORE INSTALLING THE FIXTURE. FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS AND ALL APPLICABLE ELECTRICAL CODES WILL VOID THE PRODUCT WARRANTY.

WARNING:
These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, current electrical codes and/or the current National Electric Code (NEC).

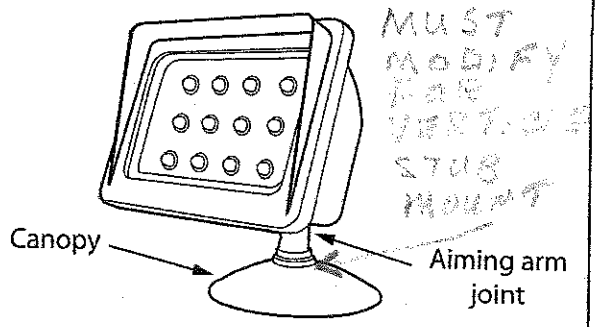
WARNING:
Disconnect supply power from the source prior to installation. This product must be installed by a person familiar with the construction and operation of the product and the hazards involved, and in accordance with current electrical codes and/or the current National Electric Code (NEC). Consult a local licensed electrician if you are not sure about the installation. To reduce potential of electric shock, fixture must be grounded.

APPLICATION / USE:
This product is rated for use in wet locations and designed for surface mounting only. Best practices include mounting fixture to a standard 4" octagonal electrical box. If an existing electrical box is an odd size, you may need to purchase an additional canopy from an electrical supplier or home supply center. Check size carefully before attempting to mount fixture.

INSTALLATION:
Disconnect supply power from the source prior to installation.

1. Thread the fixture's mounting arm into the 1/2" opening of the canopy and secure it with the 1/2" locknut.
2. Remove old fixture if applicable.
3. Connect line voltage (hot) AC supply wire(s) (Black) to the line voltage AC wire(s) (Black) inside the canopy via the attached quick electrical stab connector.
4. Connect neutral (common) AC supply wire(s) (White) to the neutral AC wire(s) (White) inside the canopy via the attached quick electrical stab connector.
5. Connect the ground AC supply wire(s) [Green or bare wire(s)] to the ground AC wire(s) [bare copper wire(s)] using an appropriate UL Listed electrical connector.
6. Cap and insulate all unused leads.
7. To aim the light, loosen the side bolt connected to the arm knuckle to aim the fixture up or down. Re-tighten bolt to secure the fixture in the desired position.
8. For a rain-tight seal, caulk the top and sides of the canopy and the aiming arm joint, with silicone caulking compound. See Figure 1.

Figure 1



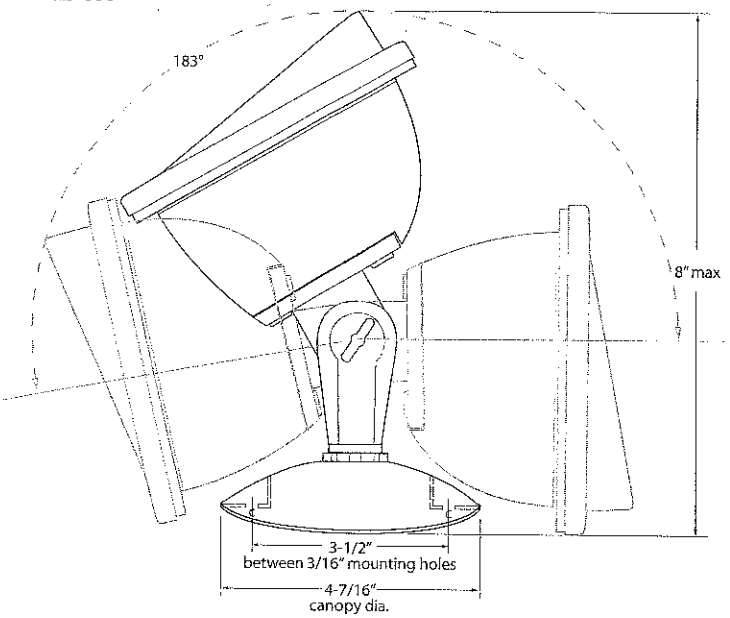
For a rain-tight seal, caulk the top and sides of the canopy and the aiming arm joint(s).

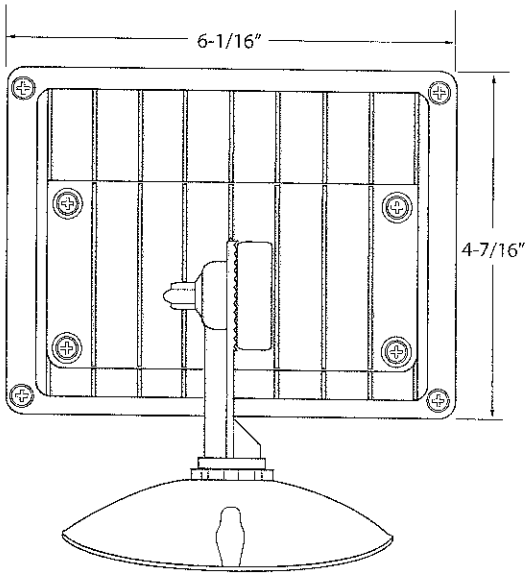
ADDITIONAL SAFETY MEASURES:

1. LEDs are not serviceable. Do not attempt to open the LED light engine.
2. LEDs are bright. Do not look directly into fixture.
3. Not intended for recess mounting in any type of installation.

MAINTENANCE = REPLACE UNIT.

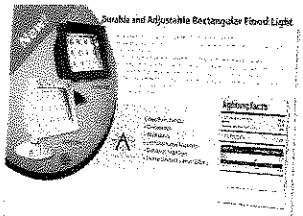
AL-WF





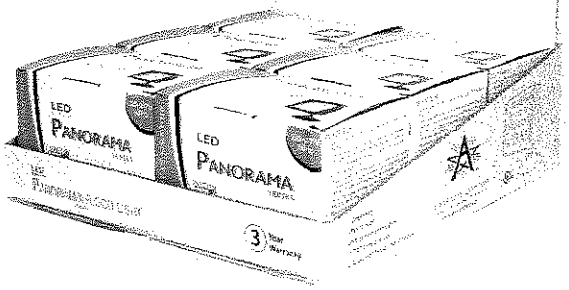
FLOOD LIGHTS

AL	—		—	
Panorama Flood Light		**WF** = Rectangular flood **1H** = Single head **2H** = Double head		**DB** = Dark Bronze **WH** = White



ACCESSORIES

AL-4C	—	
4" Extension Arm		**DB** = Dark Bronze **WH** = White



TECHNICAL SPECIFICATIONS

Voltage	120-277V AC, 60 Hz operation
Construction	Powder coated aluminum die-cast housing and lens frame, tempered glass lens, thermal shock and impact resistant design
Mounting	Surface mount to 4" standard octagonal electrical box, use included gasket for damp locations 1/2" NPT swivel arms thread into canopy, secured with lock nuts. For rain-tight seal, caulk the top and side of canopy and arm joints. 11" AWG lead wires accommodate extension arms when needed.
Dimensions	Canopy diameter (all styles) = 4-7/16"; 4" head diameter for AL-1H and AL-2H; AL-WF: H = 8" (max), W = 6-1/16", D = 8" (min), AL-1H: H = 6-3/4" (max), W = 4-7/16", D = 4-7/16", AL-2H: H = 6-1/2" (max), W = 12-1/2" (max), D = 4-7/16",
Switching	On/Off wall switch or use threaded 1/2" NPT hole (shipped with plug) for photocell (photocell not included)
Knockouts	N/A
Light output	AL-1H = 460 lumens, AL-2H = 920 lumens, AL-WF = 785 lumens
Wattage	AL-1H = 9.4 watts, AL-2H = 18.8 watts, AL-WF = 16.5 watts
Maximum run	N/A
LED Specs	50,000 hour rated life, 4400K, 80 CRI, 110° beam angle
Dimming	Not dimmable
Diffuser	Tempered glass lens
Packaging	Retail box, 6 boxes per case; carton includes tray and backer card for POP display

2015
Neighborhood Improvement Program
Project Intent

COMMUNITY SERVICES
COMMUNITY & NEIGHBORHOOD RESOURCES

Neighborhood Group: ASPEN GROVE VILLAGE HOA Date: 9-24-14

SEP24 2:57PM

Due date: **PLEASE COMPLETE AND RETURN THIS FORM BY 5:00 PM ON SEPTEMBER 24, 2014**

Project Title: ELECTRICITY CONVERSATION

Project Location: OAK RIDGE LANE ENTRANCE FROM FRANCIS ST.

Amount requestested: $ 2600 00 XX

Project Description: REPLACE 150/300 WATTS FIXTURES WITH 16.5 WATTS LED SPOT LIGHTS.
CURRENT ELECT. USED = 657,000 W/YEAR FOR EACH LAMP.
NEW 16.5W LAMPS = 72,270 = 584,730 SAVED PER LAMP.
2 LAMPS = 1,169,460W TOTAL SAVINGS = 1,170 KW ANNUAL

Will this project impact, or is any part of it in City parks and/or right-of-way (ROW)? Yes ☐ No ☒
If yes, provide a description of impact and/or placement in City parks or ROW. Please attach a map.

- **If no, attach a map showing the location on private property.**

Is electricity needed? Yes ☐ No ☒

- **If yes describe the electrical components of this project**

CURRENTLY IN USE. REMOVE & REPLACE THE UNITS.

Is this an irrigation project? Yes ☐ No ☒

A grant requesting any improvements to an irrigation system must have an independent water audit and include audit with the Project Intent. The audit must define a need for conservation and a strategy for how this grant will meet that conservation need.

1. Independent water audit attached? Yes ☐ No ☒ (grant request will not be considered without audit)
2. What is the desired conservation outcome and where is that identified in the audit?
3. How will this project meet those conservation needs?
4. NIP grants cannot be used for maintainance, explain why this is new infrastructure and not maintainance to an existing system.

Are permits needed for this project? Yes ☐ No ☒

- Describe what permits are needed for this project

Are any other City resources needed? Yes ☐ No ☒

- Describe what additional resources may be needed from the City to complete this grant

Describe the ongoing maintenance that this project requires and provide the plan to support that maintenance. Provide names and addresses of maintenance contacts (attach additional pages if necessary)

MAINTENANCE REQUIREMENT IS REMOVE & REPLACE whole UNIT AFTER AN ESTIMATED 50,000 hours = APPROX 11 1/4 YEARS.

2015
Neighborhood Improvement Program Budget

Neighborhood Group: ASPEN GROVE VILLAGE Date: 9-24-14

Project Title: ELECTRICITY CONSERVATION

Project Budget

Materials/Vendors/Installation:	Request	Match
2 LED Flood Lamps	$ 260.00	$
MOUNTING HARDWARE FOR 2 LAMPS	$	$ 25.00
	$	$
Services: TRIO HOA MGT. RESEARCH, PHONING, SHOPPING, DRIVING. 1 hours @ $ 75.00 /hour =	$	$ 75.00
TEMP. INSTALLATION TEST & PERMENANT INSTALL 2 LAMPS 8 hours @ $ 10.00 /hour = ESTIMATED	$	$ 80.00
City Staff Time needed as determined by PW&NR ____ hours @ $ ____ /hour =	$	$
TOTAL	$ 260.00	$ 180.00
TOTAL PROJECT COST INCLUDING MATCH	$ 440.00	
PERCENT OF TOTAL (Match/Request)	59 %	41 %

Estimated Annual Maintainance Costs: ① FOR FIRST 11 YEARS.

Project Cost Estimate Developed by:

(Project approval/City staff sign off, and renewal costs to be calculated by City Staff)

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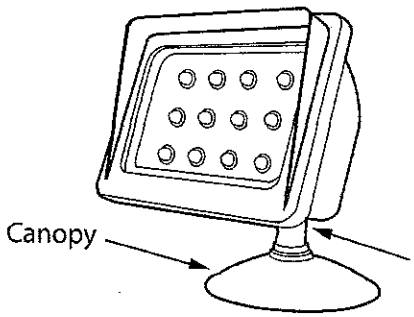

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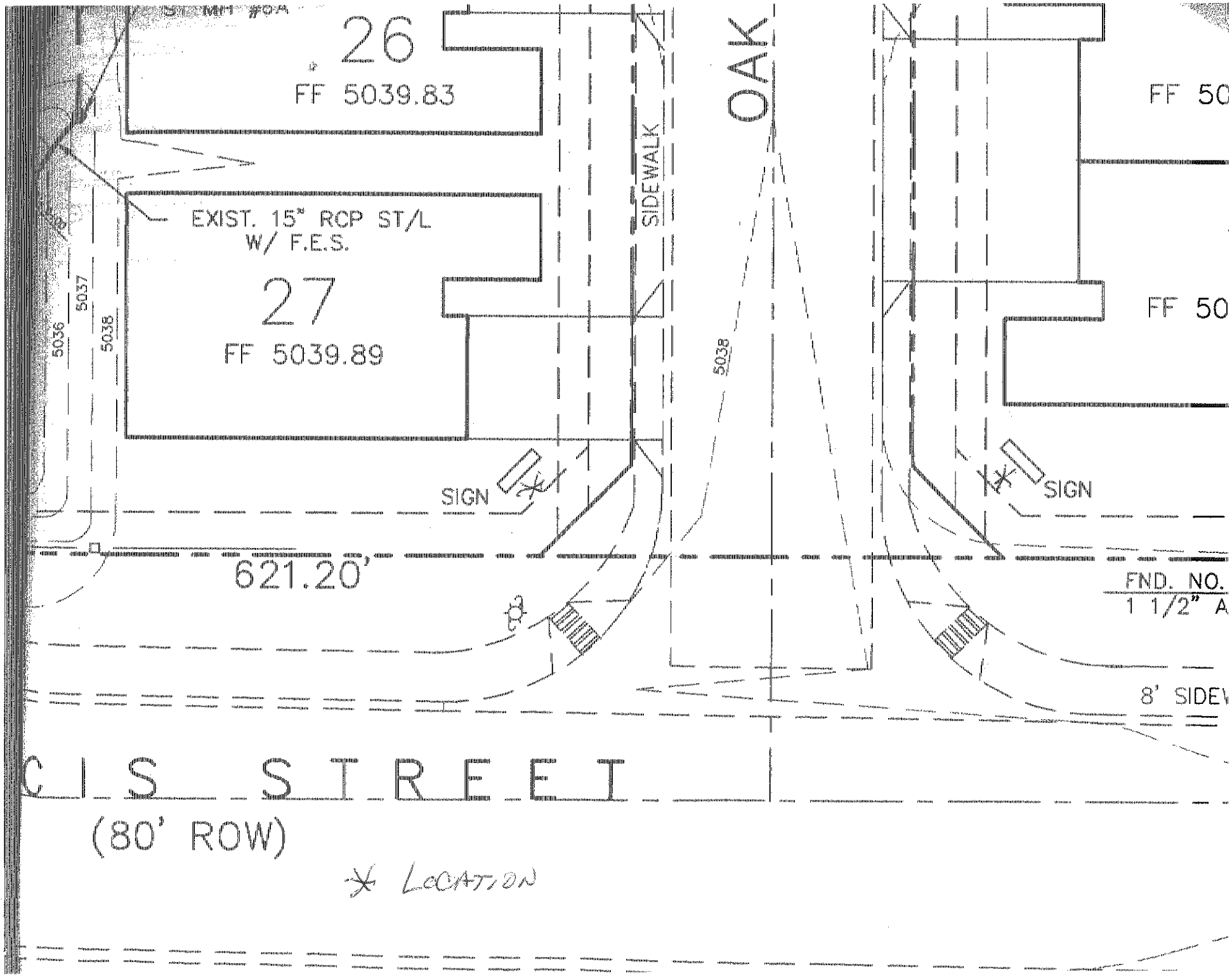
26
FF 5039.83
EXIST. 15" RCP ST/L
W/ F.E.S.
27
FF 5039.89
5036
5037
5038
SIDEWALK
OAK
5038
FF 50
FF 50
SIGN
SIGN
621.20'
FND. NO.
1 1/2" A
8' SIDE
C I S STREET
(80' ROW)
X LOCATION

Is this an irrigation project? Yes ☐ No ☒

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